

## ABSTRACT

The invention provides a micelle-containing organic polymer

5        which comprises at least one peak in its X-ray diffraction pattern,

         at least one pair of the diffraction angle ( $2\theta$ ) and the lattice spacing ( $d$ ) of said peak satisfying the relation (1) given below:

10                     $2\theta = 2\sin^{-1}(\lambda/2d)$                     (1)

(in the formula,  $\lambda$  represents the wavelength (nm) of the characteristic X-ray  $K\alpha_1$ )

         and  $d$  being at least one value within the range of not less than 0.8 nm to not more than 150 nm.

15        The invention also provides an organic polymer porous material or a porous carbon material which comprises the total volume of pores having diameters within the range of  $\pm 40\%$  of the pore diameter  $D_{\max}$  showing a maximum peak in a pore diameter distribution curve is not smaller than 50% by  
20        volume based on the total pores volume.

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